	Application No.	Applicant(s)
	10/534,879	SANDNER ET AL.
Notice of Allowability	Examiner	Art Unit
	Marc S. Zimmor	1712
	Marc S. Zimmer	11/12
The MAILING DATE of this communication apperall claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED () or other appropriate comm (IGHTS). This application is	in this application. If not included unication will be mailed in due course. THIS
1. X This communication is responsive to <u>05/12/05</u> .		
2. 🔀 The allowed claim(s) is/are <u>1-3</u> .		
3. ☑ Acknowledgment is made of a claim for foreign priority uses a) ☑ All b) ☐ Some* c) ☐ None of the:		or (f).
1. 🛛 Certified copies of the priority documents have		
2. Certified copies of the priority documents have		
Copies of the certified copies of the priority do	cuments have been receive	ed in this national stage application from the
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		e a reply complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which giv		
5. CORRECTED DRAWINGS (as "replacement sheets") mu	st be submitted.	
(a) including changes required by the Notice of Draftsper	son's Patent Drawing Revie	w (PTO-948) attached
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date	- •	
(b) ☐ including changes required by the attached Examiner Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t	1.84(c)) should be written on the header according to 37 C	the drawings in the front (not the back) of FR 1.121(d).
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 	osit of BIOLOGICAL MAT FOR THE DEPOSIT OF B	ERIAL must be submitted. Note the OLOGICAL MATERIAL.
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Attachment(s)	e Malas -si	n formal Potent Application
1. Notice of References Cited (PTO-892)		nformal Patent Application
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	Paper No	Summary (PTO-413), ./Mail Date
3. MInformation Disclosure Statements (PTO/SB/08),	7. 🗌 Examiner	s Amendment/Comment
Paper No./Mail Date <u>05/12/05,08/12/05</u> 4. ☐ Examiner's Comment Regarding Requirement for Deposit	8. 🛭 Examiner	s Statement of Reasons for Allowance
of Biological Material	9. 🔲 Other	
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. Allowable Subject Matter

Applicant claims a composition comprising as an essential component a polysiloxane having very specific structural attributes. In particular, the polysiloxane contains both aminoalkyl substituents and endgroups having residues derived from a diaza heterocycle, of which piperazine would be exemplary, or a triamine having two tertiary amine moieties (N,N,N',N",N"-pentamethyl dipropylenetriamine for instance). A residue derived from the ring-opening of either a glycidyoxypropyl terminal group or a epoxycyclohexylethyl bridges a nitrogen atom of the diaza heterocycle/triamine and the terminal silicon atoms of the polymer. Finally, the nitrogen atoms of the endgroups are quaternized whereas those of the pendent amine groups are not.

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pentamethyl dipropylenetriamine and N-methylpiperazine (paragraphs 169 and 170). Polymers exemplary of that disclosure have all of the shortcomings as a foundation for anticipation as did those taught by *Czech*.

Ryang, U.S. patent # 4,892,918, describes polysiloxane compounds (column 2) having piperazine endgroups attached to the terminal silicon atoms indirectly through a moiety obviously derived from the ring opening of a glycidyl group but the nitrogen atoms of the heterocycle are not quaternized nor are there present any pendent amine groups.

There are, in addition to these disclosures, documents that teach polysiloxanes having partial quaternization of the amine groups, documents teaching amine groups at both the terminal positions and pendent positions alike (though not necessarily amine groups resembling those depicted in the claims), etc. Ultimately, there was no one reference that taught a polymer having simultaneously all of the attributes recited *supra* nor did the prior art motivate one of ordinary skill to modify those polymers that shared at least some attributes with the claimed polymer to arrive at a structurally equivalent polysiloxane. For at least this reason, claims 1-3 are deemed allowable.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Marc S. Zimmer whose telephone number is 571-272-1096. The examiner can normally be reached on Monday-Friday 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Randy Gulakowski can be reached on 571-272-1302. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

August 30, 2007